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Articulated Vehicles see also Cargo
Vehicles, Trailers

580 821 822 823 1384 46 727 818 819
700 961 816 968 969
740 946 1948
820 966
860
970

Artillery Effects use Gunfire Effects

Aseismic Design use Seismic Design

Asymptotic Series

1571 1062 1773 1774 185 536 1777 1778 1469
1345 1256
1286
1506

Attitude Control use Control Systems

Autocorrelation Function

910 1392 558

Automatic Control use Control Systems

Automobile Accidents use Collision
Research (Automotive)

B

Automobile Bumpers see also Energy
Absorption

1120 1681 33 1117 1118 1069

Automobile Noise use Motor Vehicle Noise

Automobiles see also Buses, Motor Vehicles,
Trailers, Trucks

130 621 822 823 664 335 696 727 668 669
190 631 1152 1153 1954 1355 816 1357 818 819
420 821 1472 1553 1485 946 1557 968 969
560 961 1953 966 1827 1878 1019
580 1081 1016 1957 1079
700 1101 1356 1119
740 1371 1466 1149
820 1401 1556 1399
860 1551 1776 1549
970
1550

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1897

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1113 1834 398

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1902

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1310

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890 1864 495

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266 1698

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650 421 1776 1427

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1690 482

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1501 609

Bands use Moving Strips

Barrier Rails use Guardrails

Barriers (Highway) use Guardrails

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1781 1632 1503 364 505 1006 748
1094 1086 1457 1508

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1881 304

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654 635 467
895

Beam-Mass Systems use Mass-Beam Systems

Beams (Structural Members) see also Columns (Supports)

200 231 232 183 314 45 26 27 28 119
590 301 1132 1093 574 545 76 197 198 199
670 571 1172 1193 864 715 196 387 598 1089
1090 601 1662 1383 1504 845 466 587 678 1249
1170 1882 1733 1684 1085 856 677 698 1279
1280 1883 1884 1285 906 977 768 1689
1880 1505 1276 1087 958 1749
1685 1566 1277 1088 1879
1686 1507 1398
1766 1687 1688

Bearing Response

882

Bearings use a more specific term: Ball Bearings, Bush Bearings, Floating-Ring Journal Bearings, Fluid-Film Bearings, Foil Bearings, Friction Bearings, Gas Bearings, Hydrostatic Bearings, Journal Bearings, Roller Bearings, Self-Acting Bearings, Slider Bearings, Spool Bearings, Squeeze-Film Bearings, Tilting Pad Bearings

Bearings

30 201 202 1095 1096 928 929
390 931 482
930 1281 882
1000 932

Bellows

1044

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729

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1270 571 1042 593 574 1295 906 1007 468 579
1400 1011 1912 1303 1304 1186 1297 598 659
1191 1463 1504 1516 1307 1088 1829
1563 1508
1583 1688
1908

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Berger Theory

1911

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1933 1536 1338

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1254 1638

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1260 1691 272 753 724 205 206 207 778
1891 912 933 934 255 776 547 1628
1282 826 777 1728
1726 1147 1888
1887

Blast Excitation use Shock Excitation

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Blood Vessels

405 406

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1402 1594 1516 449
1592

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745 806

Boundary Layer Excitation
911 652 583 345 536 907 519
1001 962 1103 905 576 789
1061 1052 1296 1909
1852

Boundary Layer Transition
1477

Boundary Value Problems
850 182 443 604 915 426 987 588 459
842 1773 764 1635 1306 1168 849
992 774 1366 1228 1459
1572 844 1368 1509
894 1848 1579
1639
1839

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1733

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1710 832

Brakes (Motion Arresters)
1500 1951 1022 1023 1485 1958
1472

Braking Effects
1951 1472 1877

Brass
1650

Bridges
200 952 1733 1034 1415 76 1237 48 1339
1340 1532 1923 1184 1925 866 1507 718
1924 1646

Bubble Dynamics
523 1146

Buckling
450 301 402 163 884 305 706 707 588 49
1390 581 452 453 974 455 786 997 708 639
861 682 993 585 1606 1387 788 939
792 1383 845 1856 1607 998 999
1112 1583 885 1697 1388 1389
1703 1215 1709
1585

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120 121 112 503 734 445 1446 1287 628 119
250 251 812 693 1715 1926 1927 688
450 321 1132 893 808
810 351 953 1318
1270 811 1133
1271 1533
1341

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Vehicle Bumpers

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130 621 822 823 664 335 696 727 668 669
190 631 816 818 819
420 821 946 968 969
560 961 966
580
700
740
820
860
970

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C

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1120 361 22 1683 1245 1586 1278 1339
1830 1501 672 1763 1409
1092
1502
1682

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1860 1481 483
1863

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1280 232 1193 1504 1285 76 197 1398 359
1880 856 977 1249
1566 1277
1766

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231 1856

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1964

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190 621 632 823 616 727 818 819
420 821 822 816 1478
700
740
820

Cascades

1130 1163 564 1545 207 1728
1807

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194 735

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1610 1446

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550 591 464 1456
874
1224

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1610 1224

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1542

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1075
1135

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922 884 535 366 549
1252 904 749
1059

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400 1291 634 455 1386 1297 399
1470 794 1707
1704

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1522 1915

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1912

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560 471 822 823 134 275 666 887 128 129
740 631 1472 1153 664 825 696 1357 218 559
820 821 1552 1953 824 1355 966 1557 668 669
970 1081 1154 1405 1356 1667 818 1079
1550 1181 1624 1466 1957 1118 1489
1551 1954 1556 1448 1739
1681 1958 1859
1869
1949
1959

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849

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590 281 1283 264 466 587 198 579
1110 571 1893 574
1284

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460 621 122 123 124 175 616 727 1548 619
480 474 355 946 969
730 1744 685
800 1315

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510 511 712 453 354 365 166 167 358 899
1670 741 1242 743 784 895 396 357 608 1039
1830 1451 1452 1303 1194 1415 706 647 718 1239
1601 1403 1244 897 898 1629
1831 1832 1663 1484 1627 1038 1659
1833 1834 1628 1829
1883 1944 1828

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900 221 742 1243 784 285 1176 707 939
1240 1091 942 1413 894 305 1696 999
635 1279

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1456

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233 1856

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1545

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432 653 414 385 276 557
612 695 567
1475 607
827

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1603 937

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230 241 172 323 114 5 6 7 8 9
270 471 202 613 414 115 256 227 148 209
280 611 232 723 724 145 546 237 908 779
1010 791 322 813 814 605 886 567 1028 839
1390 1061 592 1213 824 1175 1216 807 1758 1279
1670 1171 612 1593 884 1195 1406 847 1888 1759
1680 1191 632 1763 1004 1215 1436 877 1948
1730 1211 702 1803 1194 1305 1546 1157
1800 1341 1212 1823 1214 1435 1606 1217
1890 1421 1272 1434 1585 1826 1367
1801 1372 1604 1605 1916 1567
1821 1602 1607
1802 1837
1877

Concrete

670 1271 352 1073 254 786 17 288 579
740 1313 944 926 47 1258
1563 1024 1086 217
1733 1284 347
1893 1414 677
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1800 1233

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1790

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945

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1393 144 785 1456 198 79
1245

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1040 1151 782 843 1564 1245 278
1522 1613 1574 1368
1903

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410 982 453 374 1705 1087 1399
1132 1404 1689

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673 464 1669
1083

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640 643 1644 1097 778 679
1697

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640 641 752 673 864 516 517 1098 1049
900 1261 1652 863 1644 646 977 1258 1649
1050 1451 1083 1654 1046 1697
1541 1463 1076
1651 1643
1841 1663
1901

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994 1097

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Simulation

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560 821 822 813 134 275 676 957 218 1599
820 1551 1552 823 814 825 1556 1557 818 1739
1730 1153 824 1667 1958 1949
1593 1954 1957 1959
1723

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1458

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802 313 237
852

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1090 196

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1700

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1161 572 873 414 535 366 927 178 549
782 1583 884 706 997 749
922 1823 904 906 1059
1252 1846 1509

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40 221 42 213 214 215 36 397 38 39
940 711 222 1353 224 885 996 597 218 549
1180 792 1703 1294 1585 827 398 679
1900 1112 1304 1905 588 939
1902 1834 1388 1109
1912 1588 1909
1708

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D

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750 251 792 813 494 615 626 707 928 809
1050 331 812 1743 694 695 786 937 1118 1149
1350 481 1152 944 735 866 1237 1748 1259
781 1202 1034 955 1346 1257 1938 1789
1171 1472 1044 1395 1356 1417
1741 1742 1274 1935 1626
1931 1424 1796
1734

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1755 1749

Damping use a more specific term: Acoustic

Damping, Aerodynamic Damping, Contact
Damping, Critical Damping, Dislocation
Damping, Displacement Damping, Distributed
Damping, External Damping, Frictional Damp-
ing, Layer Damping, Magnetic Damping,
Material Damping, Modal Damping, Nonlinear
Damping, Optimum Damping, Relaxation
Damping, Structural Damping, Tuned Dampers,
Velocity Damping, Viscoelastic Damping,
Viscous Damping, Wobble Damping

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30 361 362 59
1251 359

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690 1631 206
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180 611 253 254 77 179
544 627
1134 1447

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 661 483 1664 1465 346 187 909
 1431 953 1894 756
 1471 1213 1266
 1333 1436

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 1376 257

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 1951

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 1388

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 1640 1241 1893 1284 1675 1176 967
 1521 1685 1287

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 1682

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 480 171 474 475 316 897
 530 1201 1384 756 1707
 580 1016
 620
 860

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 90 101 932 243 974 475 236 317 258 249
 230 201 1102 473 1024 805 476 717 318 409
 240 241 1202 813 1154 875 606 897 478 699
 990 271 1312 1383 1194 1195 1016 967 608 719
 1020 881 1452 1413 1204 1355 1196 1017 718 1019
 1030 991 1602 1414 1415 1216 1027 1018 1729
 1450 1121 1732 1454 1465 1416 1207 1118 1929
 1510 1201 1874 1595 1436 1257 1288
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 1750 1841 1855 1886 1928
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 460 351 332 163 544 675 186 287 168 649
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 1530 1401 632 1063 964 646 817 598 879
 1840 1931 1472 1144 716 1517 988 889
 1672 1324 806 1787 1948 1199
 1842 1824 916
 1136
 1426
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 1224

Discrete Element Analysis use Lumped Parameter Methods

Discrete Fourier Transform use Fourier Transformation

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1472 1539

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1742 494 496 617
1424

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1423 1535 1416

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180 1271 12 253 1034 836 77 628 1819
380 733 1134 986 457 808
1600 893 1734 1966 627
953 1407
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1533 1907
1563

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551 1612 643 855 689
1291 1712 1123 1035 1559
1915

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20 101 292 163 1694 45 16 127 38 9
280 401 702 453 135 26 437 1188 29
470 1192 1803 255 196 1217 1898 259
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1291 1342 26
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600 1781 562 224 645 436 348 1839
582 514 1816

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1612 863 514 1455 356 1638
1642 1253 1254 1635 426
1634 1456

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642 515 507 348

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570 792 853 464 1295 526 397 468
1945 597 588
1108

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440 571 382 573 364 635 736 747 158 639
550 641 432 793 594 645 1106 1107 748 659
1470 851 782 1703 644 745 1296 1297 1178 869
1760 871 1522 1883 1434 785 1636 1387 1458 1179
1041 1642 1914 895 1517 1588 1399
1131 1882 1165 1637 1639
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1835
1905

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1641 362 1837 1179
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1491 742 1254 705 1166 1457 918 389
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1649

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1540

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1160 1401 1268
1640 1451 1688

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1120 773 556 347 48 269
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1776

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100 621 32 123 124 175 616 727 1328 619
460 1321 122 1323 474 355 946 1717 1718 969
480 1711 1732 1713 1124 685 1316 1808 1319
730 1524 1315 1526 1329
800 1714 1365 1716 1619
1330 1744
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950 621 1542 273 186 1479
1690 1761

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1754

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1920 1802 1859

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220 11612 293 424 1385 237 1749
600 1642 1093 34 1755 407
610 1573 434
1683 1684

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530 1432 1535 1526 119
1540 1256

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Excitation use a more specific term: Acoustic
Excitation, Aperiodic Excitation, Axisymmet-
ric Excitation, Brake Excitation, Dynamic
Pressure Excitation, Gyroscopic Excitation,
High Frequency Excitation, Parametric Ex-
citation, Periodic Excitation, Point Source
Excitation, Random Excitation, Self-
Excitation, Shock Excitation, Stick-Slip
Excitation, Time-Dependent Excitation,
Wind-Induced Excitation

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1551 1153 1154 696 1557 1958 1959
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1501 1417
1627

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Acoustic Fatigue, Fatigue Life, Fatigue Tests

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720 181 752 743 754 235 756 517 318 649
750 901 1042 753 1024 755 776 607 648 919
870 1201 1462 1043 1044 1045 876 647 778 1039
1050 1171 1652 1413 1184 1185 1046 777 1048 1049
1260 1261 1842 1463 1464 1465 1266 967 1258 1259
1460 1451 1473 1554 1475 1646 1047 1648 1829
1650 1461 1663 1604 1645 1237 1658 1929
1840 1841 1644 1257
1654 1677

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1460 1461 283 464 1645 646 1647 1858 189
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1259
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1552 887 619
1319
1949

Motor Vehicle Bumpers

1681

Motor Vehicle Collision use Collision

Research (Automotive)

Motor Vehicle Noise use Traffic Noise

Motor Vehicles see also Automobiles, Tractors, Trailers, Trucks

130 621 822 823 664 335 696 727 668 619
190 631 1552 1423 1535 816 887 818 669
420 821 946 968 819
560 961 966 969
580 1416 1319
700 1526 1949
740
820
860
970
1450
1540

Mounting Systems see also Vibration Isolators, Shock Isolators

1142 1874 637

Moving Loads

200 1172 25 76 158
105

Moving Sources

501

Moving Strips see also Magnetic Tapes

13

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1526

Multidegree-of-Freedom Systems

402 843 1374 457

Multiple Actuator Shakers

20

Multiple Pure Tone Noise

1807

Multiple Scattering Technique

505

Multispan Structures

587

Multistory Buildings

450 1271 445 808
810 1341
1270

Musical Instruments see also Flutes, Violins

290 1032 1155 626 289
729

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280 172

Natural Frequencies see also

Eigenvalue Problems
20 101 292 163 1114 45 16 127 38 9
280 401 1002 453 1394 135 26 567 1468 29
470 811 1282 883 255 196 827 1518 259
1300 1292 1353 845 466 1217 1888 429
1380 1682 1803 785 1496 1517 1898 569
1390 1702 1903 1915 1766 1887 979
1520 1882 1927 1089
1560 1892 1099
1710 1912 1369
1880
1910

Navier-Stokes Equations
1051 442 983 444 855 566 857 1379
1233 984
1773 1074

Network Theory
1682

Noise Abatement use Noise Reduction

Noise Barriers
800 1121 1225 1199

Noise Control use Noise Reduction

Noise Detectors use Acoustic Detectors

Noise Generation
1310 271 1922 1033 84 1335 136 137 1808 1329
1350 731 1263 754 1425 1326 1327 1359
1750 971 1323 1334 1545 1726 1807 1419
1810 1111 1543 1725 1936 1917 1619
1930 1441 1753 1935 1956 1937
1940 1611 1955
1960

Noise Measurement see also

Acoustic Measurement
70 81 72 53 124 75 326 1267 328 19
730 531 122 73 174 175 486 1597 488 499
1150 1231 492 1263 614 245 496 1827 1318 1439
1360 1721 892 1273 624 325 616 1668 1889
1480 1731 1412 1313 1544 335 726 1928
1740 1871 1482 1443 1824 355 1236
1810 1931 1922 965 1486
1941 1932 1205 1666
1265 1806
1425

Noise Prediction
1310 1672 85 1826 889
355

Noise Reduction see also Acoustic Liners,

Mufflers, Sound Absorbers
100 71 32 123 64 85 106 537 338 319
130 331 102 243 234 485 246 617 478 339
190 721 242 343 344 495 336 687 498 479
320 321 262 403 414 685 486 717 688 619
690 801 342 473 684 805 686 727 948 689
800 1021 482 543 1124 955 946 947 1428 799
1310 1121 492 1323 1314 1025 1126 1027 1528 949
1320 1231 502 1523 1344 1125 1136 1137 1718 1029
1330 1311 892 1543 1444 1195 1316 1147 1738 1129
1360 1321 1122 1713 1524 1315 1526 1197 1748 1199
1430 1511 1312 1793 1714 1335 1576 1317 1798 1209
1540 1711 1322 1813 1425 1596 1337 1928 1319
1720 1332 1595 1716 1527 1329
1750 1712 1615 1726 1717 1419
1722 1625 1826 1797 1429
1732 1715 1807 1449
1742 1745 1917 1529
1802 1805 1599
1822 1825 1719
1855 1889
1885
1955

Noise (Sound) see a more specific term: Noise Barriers, Noise Control, Noise Generation, Noise Measurement, Noise Prediction, Noise Reduction, Noise Tolerance, Noise Transmission

Noise Tolerance
620 1741 342 503 615 626 537 618 339
1740 1921 622 1743 625 1936 1537 1618 1789
1931 892 1725 1937
1822
1932

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341

Nomograms
784

Nonconservative Forces
362 975 1188

Nondestructive Tests
340 1241 532 933 384 155 1796 127 1829
1870
1910

Nonholonomic Systems
1 293 434

Nonlinear Analysis
1800 162 833 1308
1358

Nonlinear Damping
1571

Nonlinear Response
400 161 212 1683 164 296 367 848 399
410 1881 312 394 386 1627 858 1519
1280 1222 1616
1570

Nonlinear Systems
300 981 862 1103 1374 865 1406 1367 428 309
1410 1581 1902 1894 975 1779
1770 1801 1375

Nonlinear Theories
3 34 297 1438
573

Nonlinear Vibration use Nonlinear Response

Normal Modes
510 1091 152 153 74 435 886 877 748 1299
1570 782 484 1655 1496 1087 1698
1580 982 1174 1756 1517
1212 1804 1707
1612 1904
1892

Nozzles
1721 302 524 425 1329
1771 1922 614 1335 1529
624 1575 1619
684 1855
1264

Nuclear Explosions
954

Nuclear Explosions (Underground)
380

Nuclear Fuel Elements
416 117

Nuclear Power Plants
110 171 112 113 1534 295 116 1487 109
120 191 1794 686 1547 119
1820 881
1411

Nuclear Reactor Components
1794 416 117 418 419

Nuclear Reactors
120 111 323 114 115 108
121 118

Numerical Analysis use Numerical Techniques

Numerical Methods use Numerical Techniques

Numerical Techniques
570 461 162 223 164 55 436 447 208 29
850 841 292 373 444 445 446 1177 228 849
1280 851 422 443 484 845 576 1297 448 879
1380 1011 732 863 844 855 766 1377 458 989
1520 1061 842 983 854 975 826 1577 798 1149
1630 1301 852 1003 984 985 886 1687 1088 1379
1571 1192 1143 1074 1085 956 1168 1569
1661 1382 1183 1234 1165 1116 1268 1579
1572 1373 1374 1225 1256 1298 1879
1702 1383 1504 1375 1376 1378
1772 1403 1694 1515 1396 1468
1573 1774 1575 1506 1578
1583 1814 1945 1516 1768
1783 1576
1903 1696
1706
1916

Nutation Damper
1630

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Occupant Simulation see also Anthropomorphic
 Dummies, Human Response
 471 692 603 664 1405 666 1448 1489
 1593 696 1958 1869
 966

Oceans
 370 1422 1853 534 886 757 1608 1229
 1440 1306 1437 1609

Off-Highway Vehicles see also Tractors
 1420 961 1423 1535 1526 98
 1540 1288

Offshore Structures
 875 736

Oil Whip Phenomena
 930 929

One Degree-of-Freedom Systems use
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 550 591 874

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 401 957

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 921 962 383 715 1747 748

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 763 1459

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 577 578

Optimization
 990 651 1602 1514 1775 126 577 58 69
 1580 991 336 1777 68
 1631 856 578
 1276 1018
 1776 1178
 1836 1398
 1778

Optimum Damping
 1836

Optimum Design
 650 461 1102 1083 607 608
 1193 958

Organs (Biological)
 1531 1742 554 1935 408
 1424 618

Orthotropic Cylinders
 1509

Orthotropic Plates
 400 851 452 1114 455 718 399
 1911 1298 429

Orthotropic Shells
 1590 1361 679

Oscillations use Vibration Response

Oscillators
 140 381 1012 1074 435 296 1767 458 309
 1072 986 1268

Overhead Guideways use Suspended Structures

P

Packaging
 963 1944 815 556 269
 1145

Panels
 830 1101 1102 743 784 45 436 707 308 789
 1103 305 786 1697 1698 999
 1613 575 996 1289
 785 1016 1699
 1695 1296

Parameter Identification
 170 991 1412 1673 314 315 1866 1487 139
 880 1411 474 375 1597 339
 1334 1765 1877
 1394 1775
 1594

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[illegible]

Plastic Deformation
 540 591 712 493 794 945 526 747 468 749
 710 671 772 773 1064 746 1037 1639
 960 901 1512 1794 1945 816 1177
 1160 1521 906 1407
 1640

Plasticity Theory
 1701 1065 507

Plastic Media
 1828

Plastic Properties
 1701 1854 1828

Plastics
 1663 896

Plate-Airflow Interaction use
 Interaction: Plate-Airflow

Plates (Structural Members)
 220 41 432 183 354 225 216 117 58 399
 340 231 452 223 464 285 226 307 678 429
 400 401 742 593 634 395 396 427 718 659
 590 601 942 793 644 465 1106 767 788 1519
 600 651 962 943 794 565 1176 857 1008 1669
 680 851 982 993 894 745 1186 1047 1048 1699
 790 941 1292 1173 914 1295 1296 1107 1108 1709
 1240 1011 1662 1303 1114 1305 1306 1297 1298
 1290 1191 1702 1903 1404 1475 1386 1517 1308
 1300 1291 1913 1624 1705 1606 1607 1908
 1370 1911 1704 1915 1706 1707
 1390 1904 1906
 1400 1914
 1470
 1520
 1910

Plate-Turbulence Interaction use
 Interaction: Plate-Turbulence

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 680

Pneumatic Isolators
 1142 1117 268

Pneumatic Springs
 1498

Pneumatic Systems
 1810 1543
 1940

Pneumatic Tires use Tires (Pneumatic)

Pogo Effect
 1692 1146

Pogo Oscillation use Pogo Effect

Point Contact use Hertzian Contact

Point Matching Method
 550

Point Source Excitation
 790 501 1174 1115 427 1809
 1230

Poiseuille Flow
 443

Polymers see also Elastomers
 530 344 925 516 1038 269
 1670 1055

Polyurethane see also Elastomers
 530 344 925 516 269
 1126

Pontryagin Principle
 1018

Popov Method
 865

Porcelain use Ceramics

Power Plants
 110 171 112 113 154 295 116 107 1618 109
 120 191 1534 686 1487 119
 1820 881 1794 1547
 1411

Power Series Method use Series Solution

Power Spectral Techniques
 950 868
 1918

Prediction use Diagnostic Techniques,
 Damage Prediction

Presses
 1441 1942 1943 1745 1917

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2701541 9741945 357
1794

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3521733 677
1507

Principle of Virtual Work
597

Prismatic Bodies
1301

Probability Density Function
1392 43 11851646

Probability Theory
710 1182 118413951396 867 458 869
1780 1417

Propeller Blades see also Rotary Wings
1890 13631754 5951496
1930 9351596
14351726

Propulsion Systems
1510 242 8051716 15281599
1332

Pulse Excitation use Shock Excitation

Pumps
1320 101 1544

Pyrolytic Graphite Type Materials use
Vapor Deposited Materials

R

Railroad Cars
1478

Railroad Noise
889

Railroad Tracks
581 1051946 107
605

Railroad Trains
605 889
965 1449

Random Excitation
230 5611392 6041185 2061767 318 89
870 991 129418151706 868 189
18401111 1394 1268 309
1261 1564 1818 649
1604 1139
1909

Random Media
1782

Random Parameters
1884 459

Random Response
11 1003 104 265 586 457 458 229
1261 1333 694 9951646 5871268
1706 1348

Random Vibration use Random Response

Rapid Transit Systems see also High-Speed
Transportation Systems
104 10619471238

Rayleigh Quotient
1189

Rayleigh-Ritz Method
1520 1583 1085 29

Rayleigh Waves
1622 7051166 1459
12551636 1649

Ray Theory
1811 14671458

Reactors
1541151213531304 41515461247
1547

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568

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1266 187 1859

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786

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550 431 452 431914 216 229
1290 461 942 453 1519
1300 94112921913 1699
1910

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1181

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319
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677

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670 1271 1563 944 1086
1893 1284
1554

579

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1659

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396

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811

1639

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527

Reliability (Mechanical)

1395 1796

Reliability (Structural)

1842

Resonance use a more specific term: Acoustic
Resonance, Cavity Resonance, Parametric
Resonance, Spatial Resonance, Vibration
Resonance

Resonance Bar Technique

715

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20

74

1927

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Resonators

414

Response use a more specific term: Acoustic
Response, Bearing Response, Coupled
Response, Elastodynamic Response,
Frequency Response, High Frequency Response,
Lateral Response, Longitudinal Response,
Nonlinear Response, Parametric Response,
Periodic Response, Random Vibration
Response, Rotor Response, Seismic Response,
Shock Response, Structural Response,
Torsional Response, Transient Response,
Unbalanced Mass Response, Vibration
Response

Response Spectra use a more specific term:
Shock Response Spectra, Vibration Response
Spectra

Restraint Systems use Safety Restraint Systems

Reverberation

1200 491

1221

Reverberation Chambers

831 1392 543 1094 1865

1123

Reviews

50 741 62 1243 814 235 477 288 819

1200 831 172 1423 1024 1025 917 1018 1029

1420 871 322 1793 1424 1425 1337 1528 1199

1430 971 882 1863 1794 1795 1797 1598 1599

1600 1421 932 1835 1789

1601 952

1791 1102

1332

1422

1792

Rigid Bodies

440 1031 462

424 1845 426

1846

Rigid-Plastic Properties

1515

1879

Rigid Walled Ducts

490

Rings

521 382

1194 1915

1637 1308

851 1522

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Ritz Method
431 856 1457 998 399
1298
1398

Road Profile use Road Roughness

Road Roughness see also Runway Roughness
770 1553 104

Roads
1343 816 558
1078

Rocket Launchers use Missile Launchers

Rocket Motors
303 425

Rockets
425

Rocks
500 954 675 1647
630

Rods
1830 1661 1502 23 24 45 1256 317 748
364 505
1635

Roller Bearings
1281 202 1473 1885

Rooms
1030 948

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Blades, Helicopters
80 91 272 83 84 205 86 1737 1138 79
411 283 284 255 286 1757 1488 89
1391 753 285 726 1838 259
1691 1393 595 1376 1139
1791 1513 935 1596
1345 1676
1435

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Shafts, Turbomachinery
612 653 1504 385 276 567 159
1162 1684 1095 1096 607 449
1792 827 1509
1749

Rotation
582 454 1059
594 1939

Rotational Flow
1850 762 984 438

Rotatory Inertia Effects
1880 1882 153 215 26 199
34 715 466 259
1704 1085 1279
1685 1689

Rotor Blades (Rotary Wings) use Rotary Wings

Rotor Blades (Turbomachinery) see also
Compressor Blades
724 826 547 778
777

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1750 1611 1753 136 1359

Rotor Response
1751 1752

Rotors (Machine Elements) see also Shafts
390 421 1312 203 1584 385 1866 137 689
1080 971 1452 1273 1874 1015 147
1360 1281 1752 1095 257
1750 1391 1427
1960 1751

Roughness use Surface Roughness

Rubber use Elastomers

Rules use Regulations

Runge-Kutta Method
1881 1389

Runway Roughness see also Road Roughness
770 1333 1918

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Safety Factors

1742 553 415 1546 1267 1938
1547

Safety Restraint Systems

1550 1081 692 1593 1935 966 1127 128 129
1141 1356 1748 559
1181 1959

Sand

1476

Sandwich Plates

1903 354
1913

Sandwich Shells

1113 1217

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Structures, Laminates

900 221 742 453 34 285 1176 167 608 939
1400 1091 942 1113 354 635 707 718 999
1662 1243 784 1217 1279
1583 894
1883 1834
1903
1913

Satellite Booms (Antennas) use Antennas

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150 151 1364 145 146 147 149
280 831 1755 227 1759
1630 277

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1148

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231 1856

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783

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1443 314 1815 1817

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120 211 12 1533 1534 476 1287 108 109
1600 1271 112 1733 1734 1786 1407 1819
1820 1893 1487
1907

Seismic Excitation see also Earthquakes

180 181 153 1134 1005 156 457 628
1251 253 1734 836 627 808
693 1966 1447
733
893
953
1343

Seismic Response

110 171 113 114 115 116 77 118 119
180 191 253 154 445 346 187 528 179
211 733 954
781 1133 1034
1343
1533

Seismic Waves

1622 1343

Self-Excited Vibration

830 141 52 803 294 575 96 207 138 829
1130 241 142 1193 745 236 1737 308 1559
1580 391 422 1453 1155 286 1757 828
1660 561 512 1693 1605 1156 1068
1361 552 1923 1246 1398
1961 972 1756 1558
1362
1962

Self-Sustained Vibration use
Self-Excited Vibration

Semitrailers see also Trailers

580 821 822 823 46 727 818 819
700 961 816 968 969
740 946
820 966
860
970

Series Solution

600 1571 1703 1774 185 1256 1777 1778 1569
1773 455 1506 1848
1345

Servomechanisms

1362

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421 142 653 135 276 567 689
971 612 385 1506 607 1749
1042 827

Shakedown Theorem

515

Shakers use a more specific term:

Electrohydraulic Shakers, Hydraulic Shakers,
Mechanical Shakers, Multiple Actuator Shakers

Shallow Shells

470 551

Shape Effects

1960 802 613 1614 1286 237
852 1423 1886 1867

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Shear Deformation Effects

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1670 371 24 895 959

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Deformation Effects

Shear Stress

922

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1701 1252 1833 294 1638

Shells (Structural Forms)

470 221 42 163 34 35 6 37 8 39
940 231 222 183 214 45 736 227 38 299
1110 551 232 213 224 215 996 397 218 549
1180 591 402 573 564 225 1116 597 228 589
1590 711 792 723 1194 395 1516 827 588 659
1900 791 1112 873 1214 465 1706 1187 708 679
861 1302 1113 1294 585 1916 1217 848 939
1111 1402 1293 1304 885 1307 1008 1109
1301 1902 1353 1434 1115 1907 1388 1189
1361 1912 1703 1834 1215 1518 1299
1521 1823 1585 1588 1389
1905 1708 1569
1709
1909

Shells of Revolution

1590 791 232 723 1214 35 6 8 1299
1302 585 1916 1569
1215

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213 224 706 1187
573 1214 1516

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775 697

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1860

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1363 144 1965
974
1964

Shipping Containers see also Containers, Tanks (Storage)

653 534 875 378

Ship Propellers use Marine Propellers

Ships

973 124 1158
1963 964 1758
1404
1964

Ship Structural Components

1363 144 595
1964 1965

Ship Structures use Ships

Ship Vibration

143 144 1965
1964

Shock Absorbers

700 33 1878 1119
990 773 1499
1679

Shock Absorption see also Vibration Absorption

260 262 963 674 265 927 268
392 1873 1944

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Shock Excitation

384 1665 37 768
737 1308

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1145 1338 1309
1859

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709

Shock Resistant Design use Blast
Resistant Design

Shock Response

210 351 382 413 944 165 896 27 298 349
560 451 462 703 1744 945 1016 557 1038 1119
590 551 692 813 1944 1145 767 1118 1659
630 631 1152 1153 1515 927 1448
1120 1081 1462 1943 1127
1240 1681 1667
1881 1957

Shock Response Spectra

171 1204 1208

Shock Spectra use Shock Response Spectra

Shock Tests see also Impact Tests

970 351 352 663 824 365 696 737 668 669
1081 662 823 675 887
1141 722 963 755 927
772 815 957
1462 825 1247
1542

Shock Tube Tests

210 1232 1626 1477 1578
1492 1736

Shock Wave Diffraction

1623

Shock Wave Propagation

940 31 182 353 354 415 506 347 298
1492 363 1634 417 348
1547

Shock Wave Reflection

350

Shock Waves

350 1041 642 663 674 15 736 397 348 629
610 1771 662 1233 794 735 806 507 508 789
660 1821 852 1623 1234 1035 1056 917 738 859
1060 902 1624 1075 1366 1847 938 1769
1470 1232 1235 1736 1438
1492 1575 1458
1562 1578
1592

Short Takeoff Aircraft

1680 1331 1322 633 624 805 1326 1337 1128 1619
1790 1731 1332 1873 1334 1325 1336 1527 1528 1729
1921 1732 1595

Shrouds

1561 347 1529

Shuttles (Spacecraft) use Space Shuttles

Signal-to-Noise Ratio

1813

Simulation see also Mathematical Models

580 831 282 663 414 145 336 887 538 669
700 781 622 733 634 635 666 937 1068 1409
1560 961 632 1563 1014 665 1266 1677 1538 1759
1680 1081 1232 1593 1384 1185 1877 1949
1790 1271 1272 1863 1534 1895 1959
1810 1541 1382
1741 1652
1951

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1410 561 797
981

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809

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1911 1305 226 1298 429

Skidding

770 1553
1020
1950

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1741

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 690 1691 1442 333 324 1565 1616 1617 1219
 1220 1811 1782 1614 1615 1816 1379
 1440 1784 1875 1609
 1620 1899

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 Sonic Booms
 250 541 472 333 334 505 306 427 208 229
 330 721 622 1003 494 725 1296 537 458 1219
 410 831 732 1123 554 1445 1816 1227 728 1359
 490 891 812 1963 1094 1905 1946 1377 1218 1529
 1220 1441 832 1804 1817 1228 1609
 1870 1611 1162 1857 1328 1809
 1900 1312 1867 1438 1899
 1392 1568
 1612 1608
 1712
 1812

Spacecraft see also Satellites
 150 151 1562 145 146 147 1678 149
 1560 831 227
 1561 277
 1601 1347
 1741
 1761

Space Frames see also Frames
 824 599

Space Shuttles
 150 151 1562 146 149
 1751

Space Stations
 150 151 1562 145 146 149
 1741
 1761

Space Vehicles use Spacecraft

Spatial Resonance
 311

Specifications see also Standards and Codes
 240 171 192 503 124 1485 316 897 1198 1789
 530 1201 342 474 1725 616 1707 1618 1929
 580 1384 1016
 1210 1954
 1430
 1820

Spectral Density Method
 1900 488
 558

Spectrum Analysis
 950 171 1372 1493 1964 985 986 488
 1431 1432 868
 1872 1918

Spectrum Analyzers
 1431 1432 1269

Spheres
 310 772 746
 890 846
 1386

Spherical Caps
 1228

Spherical Shells
 470 551 37 708
 861 397 1518
 1521 747

Spherical Waves see also Elastic Waves
 1227

Spheroids
 1253

Spine (Human) use Human Spine

Spinning use Rotation

Spring-Mass Systems use Mass-Spring
 Systems

Springs
 681 796 1637 1498 769

Squeeze-Film Bearings
 1584
 1874

SST Aircraft
 721 242 1677 249
 799

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Stability

300 391 292 163 304 105 996 227 708 249
 420 451 362 273 454 205 1056 787 1188 549
 580 581 512 303 584 225 1146 977 1548 589
 780 861 582 583 974 305 1606 1007 1588 609
 860 871 602 803 994 425 1886 1167 829
 930 1001 762 1283 1164 585 1916 1607 929
 1000 1381 862 1693 1214 865 1857 999
 1180 1391 872 1294 995 1129
 1250 1491 952 1384 1095 1179
 1280 1581 972 1584 1285 1299
 1660 1641 1112 1594 1345 1369
 1700 1731 1582 1844 1385 1389
 1850 1692 1894 1655 1779
 1960 1902 1924 1755 1849
 1775

Stacks (Exhaust) use Chimneys

Standards and Codes see also Specifications
 240 1021 342 93 124 75 486 1117 1558 319
 320 1941 1022 1023 616 1197 1798 1419
 1210 1951 1082 1486 1938 1429
 1790 1596

Standing Waves

1610 1851 1656 1657

Static Analysis

1800 1803 1916

Statistical Analysis

460 251 1002 43 44 1005 866 1497 328 89
 870 1181 1372 1003 284 876 1818 709
 1780 1261 1392 1033 1004 1646 869
 1412 1133 1214
 1183 1394
 1393

Statistical Energy Methods

1564 586

Steady State use Periodic Excitation

Steady State Response use Periodic Response

Steel

1120 1651 1462 673 14 445 1046 1047 598
 1300 1653 1064 1045 1947 1048
 1460 1414 1645
 1464
 1854

Steepest Descent Method

1848

Steering Columns use Automobile Steering Columns

Steering Effects

420 125

Step Response

1571 975

Stick-Slip Response

13 267

Stiffened Cylinders

549

Stiffened Panels

305 549
 1695

Stiffened Plates

468

Stiffened Shells

6 8
 38
 1708

Stiffness Factors

1290 941 1132 594 1385 546 1927 1088 579
 1101 1399

Stiffness Matrixes

1341 1766 437 548

Stochastic Processes

283 1294 985 876 1367 1408
 623 1494 1815 1396 1767 1918
 1033 1814
 1433

Strain

1340 711 1464 925 746 528
 1460 1451 1634 1495 926
 1650 1086

Strain Gages

1073 665

Strain Hardening

1160 493 517
 1640

Strain Rate

540 671 397
 1461

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Strength

365 796 777 809
595 1049
1045

Stress Analysis

530 641 572 463 874 465 746 1097 318 679
640 671 682 533 894 595 1046 1107 528 749
670 711 772 643 1144 935 1076 1157 1048 809
900 901 1532 753 1184 1695 1106 1257 1108 1039
1050 1241 1652 793 1304 1456 1287 1828 1289
1240 1651 863 1794 1507 1569
1370 903 1687 1699
1830 1043 1747
1403
1463
1643
1653
1933

Stresses

1502

Stress Waves

540 1442 493 544 926 527
1370 673 954

Strings see also Catenaries

1120 1501 672 1763 1245 386 1339
1830 1682 1092 1586
1502
1683

Structural Analysis

1290 481 872 323 824 315 906 847 1028
1400 571 1002 1563 1674 845 1026 987 1758
1580 871 1772 1603 1854 1385 1436 1157
1421 1733 1395 1687
1591 1803 1415 1927
1801

Structural Damping

1391 1962 1193 1394 795 146 457 958
1453 1385 1836
1633

Structural Design use Design Techniques

Structural Dynamics

1203 515 809

Structural Members

230 61 183 5
45

Structural Reliability use
Reliability (Structural)

Structural Response

230 781 152 173 734 445 156 437 418 409
380 901 322 693 944 835 636 457 468 829
710 1291 472 713 1024 1695 836 627 538 1139
750 1411 832 823 1134 1556 1007 628 1169
780 1202 893 1564 1706 1387 1198 1339
810 1272 953 1664 1926 1447 1399
1160 1762 1073 1734 1966 1487 1819
1270 1633 1547
1380 1823 1587
1600 1907
1640
1840

Structure-Medium Interaction use
Interaction: Structure-Medium

Structures

881 1182 923 1785 1216 1018 279
1842 1178

Structures in Fluid Media use

Submerged Structures

Struts use Beams (Structural Members)

Sturm Sequence Technique

567

Subaqueous Structures use Submerged
Structures

Subharmonic Oscillations

1770 1582

Submarines

1963 477

Submerged Structures see also Offshore
Structures

270 672 1353 1115 16 477
1613 1905 506
1963 736
1786
1846

Subroutines

613 1567

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Subsonic Flow

951

9961327

1889

1909

1919

Successive Approximation Method

400

652

Supersonic Aircraft use SST Aircraft

Supersonic Flow

6101821 8521063

1855

1057

859

1130 15921223

1807

1179

1852

Support Condition Effects

1517

Supports use Columns (Supports)

Surface Grinding use Grinding

Surface Roughness

770 131 7321333 1041555

1437 518

1151 1553 9141815

1787 558

924

18171818

1918

Surface (Sea) use Sea Surface

Surface Vibrations

1568

Surface Waves

1230 16221853

12551816

1845

Surveys (Reviews) use Reviews

Suspended Structures

1763 994

1097

Suspension Bridges

1923

76

1339

Suspension Systems (Vehicles)

103 744 125 46 97 9681549

12618771288

1466

T

Tankers (Ships)

11571758

Tanks (Containers) use Tanks (Storage)

Tanks (Storage) see also Shipping Containers

1760

653 534 875

3781739

Taperd Beams use Beams (Structural Members), Variable Cross Section

Tapes use Moving Strips

Temperature use Thermal Excitation

Test Data

1650 741

83 134 35 56 77

981049

1821

243 5241495

238

513 904

518

Test Equipment

532 483

755 66

18 189

662 663

14751206185710681269

1942

16651856

1858

1898

Test Facilities

190

722

83126415451666 2471478 739

920

1473

1477

1667

Test Fixtures use Test Facilities

Testing Techniques

20 101 52 533 134 35 66 127 238 289

340 751 82 853 384 155 186 287 188 539

7701241 382 933 904 605 346 357 418 879

9201401 5321063 964 815 7161517 5381829

10301481127210831274 825 9161677 988

18401931147217131324 905 94617871678

187019511672 1474 9251136 1808

1910 1842 148414851426 1858

160416651796 1948

167418651876

1824

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Test Models

310	101	192	193	174	405	576	77	168	349
470	411	712	603	294	525	806	247	828	469
610	771	772	733	624	745	876	657	1828	879
870	1341	1002	1033	874	905	956	1867	1868	1079
1080	1831	1812		994	945	1676			1129
1270				1724	1015	1866			1159
1950				1784	1285	1876			1409
				1924	1835	1926			1489
									1879

Test Results

532	533	325	586	357
692				497
1102				

Tests use a more specific term: Acoustical Tests, Dynamic Tests, Fatigue Tests, Impact Tests, Resonance Tests, Shock Tests, Vibration Tests

Theory of Elasticity use Elasticity Theory

Thermal Excitation

360	1051	34	1615	738	49
400	1661	1064		1548	659
1470	1671	1104			
		1574			

Thermal Stresses

360	1461	872	853	634	665	1097	788	749
1340	1531	1532	1503	1234	1645		1648	1039
1590								

Thermoacoustic Waves

374 1065

Thermoelasticity

1470	872	373	374	645
				1165

Thermoviscoelasticity

353

Thick Plates use Plates

Thin Beams use Beams (Structural Members)

Thin Films

389
1459

Thin Plates use Membranes

Thin Shells use Shells (Structural Forms)

Tilting Pad Bearings

1584

Time-Dependent Boundaries use

Time-Dependent Excitation

Time-Dependent Excitation see also

Transient Excitation

911	373	644	1165	926	577	578	1009
		1084			597	1768	1109
					817	1818	1659
					1907		

Timoshenko Beam Theory use Timoshenko Theory

Timoshenko Theory

1882	215	26	199
	715	466	1279
	1085		1689
	1685		

Tire Characteristics

1020	131	1952	1263	1555	1956	127	1078
1150	1151	1423				1727	1948
1950							

Tires (Aircraft)

1724

Tires (Automotive)

1150	131	1263	274	1555	1956	1078
1950	1151			1955		

Tires (Pneumatic)

1952 1955

Tools

1543	1144	96	267	268	359
		1476		1148	1019
					1539

Torsional Response

440	1301	1962	273	1364	1245	197	988	79
	1781		1393			1007		1089
			1503			1087		
						1507		

Torsional Systems

988

Torsional Vibration use Torsional Response

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Torsional Waves use Shear Waves

Towed Bodies

520 1159

Towed Vehicles see also Ground Vehicles

420 821 632 823 46 727 818 819
580 961 822 1023 616 968 969
700 816
740 946
820 966
860
970

Towers see also Chimneys

555 1966 169
1299

Tracked Vehicles

1450

Tracks (Railroad) use Railroad Tracks

Tractors see also Agricultural Machinery, Motor Vehicles, Off-Highway Vehicles, Towing Vehicles

335 97 99

Traffic Induced Vibration

562 1947 1238

Traffic Noise

460 621 122 123 124 175 616 727 1238 619
480 1121 332 1033 474 335 946 1827 1318 969
730 342 1183 1444 355 1206 1947 1428 889
800 1412 1793 1824 685 1236 1798
1150 1802 1315 1316
1555 1826
1825 1956

Traffic Safety use Collision Research (Automotive)

Trailers see also Articulated Vehicles, Auto- mobiles, Motor Vehicles, Semitrailers, Trucks

130 621 822 823 664 335 696 727 668 669
190 631 816 818 819
420 821 946 968 969
560 961 966
580
700
740
820
860
970

Trains use Railroad Trains

Transducers

1481 483 375 666 378
923 1445 1036
1673
1863

Transfer Functions

1251 1493 1454 817

Transfer Matrix Method

1925 1087 979

Transformation Techniques

1403 4 387

Transient Excitation see also

Time-Dependent Excitation

1260 911 373 1785 436 577 578
1370 1441 853 926 597
817

Transient Response

520 431 2 223 884 295 36 327 228 299
550 851 1092 433 1084 35 216 397 678 549
1710 921 1222 713 1504 645 356 1307 768 1009
981 1302 1113 1704 1675 1116 1587 888 1299
1351 1632 1293 1884 1915 1506 1707 958 1569
1641 1682 1516 988 1909
1881 1686 1168
1696 1278
1358
1888

Transient Vibration use Transient Response

Transmissibility use Transmissivity

Transmission Lines

1861 1192 1833 1804 1195 1286
1222 1816

Transmission Loss

1805

Transmissions use Automotive Transmissions

Transmissivity

763 1459

Transmitters use Measuring Instruments

Transonic Flow

1920 1771 1175 1769

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Transportation Noise use Traffic Noise

Transportation Systems

2001331 502 103 104 965 10611271238 889
1450 6331414 1236194713381449
1826

Transverse Normal Strain use Strain

Transverse Shear Deformation Effects

188015211882 153 34 195 4661107 168 199
1950 18931284 215110615071088 259
715 16381279
1085 16581689
1305
1685

Transverse Vibration use Flexural Vibration

Traveling Loads use Moving Loads

Truck Frames

1202

Trucks see also Automobiles, Cargo Vehicles, Motor Vehicles, Trailers

130 621 822 823 664 335 696 727 668 669
190 6311022 1555 8161237 818 819
420 821 9461827 968 969
560 961 966 12881309
580 1316 17981419
700 1948
740
820
860
970
1310

Trusses use Framed Structures

Tubes see also Piping

760 211 212 393 394 151196 557 9381639
13201701 10941105 997 1719
1700

Turbine Blades

12601891 912 753 934 776 777 778
1282 933 1628
18921043

Turbine Components

12601891 272 283 2841475 286 547 778 569
912 563 724 776 77716281669
1352 753 934 826 1888
1542 933 1146
1892

Turbomachinery

100 681 282 633 414 385 276 287 838 699
1161 432 6531764 6951216 5571718 799
1891 6121163 14751326 567 839
1162 607
1282 687
1792 827
1327

Turbulence

150 931 522 903 294 195 576 907 518 789
9101051 902 913 524 655 6561317 658 829
10701061 9121053 654 765 806 1058 909
12201161 9321103 904 905 846 11281129
19001221 9621273 9141055 916 11381919
185110521393 9241135 936
1062175310041545
1422 1054
1722 1104
1812 1404

U

Ultraharmonic Resonance use Ultrasonic Resonance

Ultrasonic Techniques see also Vibratory Techniques

5411072 404 406 919
934 1346

Ultrasonic Tests

1473

Unbalanced Mass Response see also Balancing Machines, Balancing Techniques

650 11481939
1080

Underground Explosions

380 1133

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Underground Structures see also
Hardened Structures

316 698

Underwater Explosions

1440 1963 735 506

Underwater Sound

1220 341 1212 623 484 886 947 488 1229
1811 1673 504 1817 1608 1439
1813 1174 1818 1609
1784
1804

Underwater Structures use Submerged
Structures

Urban Noise

1200 1802 1793 484 1236 1087 1428
794 1806 1827
1826

Urethane Foam use Foams

V

Valves

1511 392

Van Der Pol Method

561

Variable Material Properties

1191 847

Variational Methods

590 461 872 1193 306 447 588 839
1110 791 856 1007 1398 1189
871 1186 1187 1589
1301 1217
1781 1587

Vector Plot use Vector Diagram Method

Vehicles use a more specific term: Flight

Vehicles, Ground Vehicles, Motor Vehicles

Vehicle Wheels use Wheels

Velocity

491 1642 1104 1615 406 1608
1614
1624

Velocity Control use Deceleration

Velocity Damping

654 1679

Vertical Response

426

Vertical Takeoff Aircraft

1530 801 1732 803 804 1128
1790 1921

Vibration use a more specific term: Aircraft
Vibration, Axisymmetric Vibration, Contact
Vibration, Engine Vibration, Flexural Vibra-
tion, Forced Vibration, Helicopter Vibration
Effects, Longitudinal Response, Machine
Vibration, Magnetoelastic Vibration, Micro-
vibration, Natural Frequencies, Nonlinear
Response, Normal Mode, Quasi-Harmonic
Vibration, Random Response, Self-Excited
Vibration, Ship Vibration, Surface Vibration,
Torsional Response, Traffic Induced Vibration,
Transient Response, Ultrasonic Vibration,
Vibrating Structures, Vibration Absorption,
Vibration Analyzers, Vibrational Control,
Vibration Dampers, Vibration Excitation,
Vibration Isolation, Vibration Isolators,
Vibration Measurement, Vibration Monitors,
Vibration Recording, Vibration Resonance,
Vibration Response, Vibration Response
Spectra, Vibration Tests, Vibration Tolerance,
Vibration Transmission, Vibration Tuning,
Vibrational Relaxation, Vibrators (Machinery),
Vibratory Compacting, Vibratory Mills,
Vibratory Techniques, Vibratory Tools

Vibrating Structures

1100 1513 1094 206 207 1098 159
1170 1114 1276 1927
1870 1454 1566
1900

Vibration Absorption (Equipment) see also

Shock Absorption, Vibration Control
261 1352 638 1499

Vibration Absorption (Materials) see also

Shock Absorption, Vibration Control
260 262 265 268
392

Vibrational Relaxation

1492

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Vibration Analyzers

921 1872 1066 637 919
1942 1426 1799

Vibration Control see also Vibration Absorption (Equipment), Vibration Absorption (Materials), Vibration Isolation

60 511 262 63 14 265 106 138 479
260 1751 392 273 104 636 268
290 1352 744 948
1430 1752 1874

Vibration Dampers

1247 138 1499
1679

Vibration Detectors use Transducers

Vibration Excitation

700 1351 1632 143 1564 1245 376 367 1348
1350 1531 923 1674 716 547 1658
1934 796 697
1536 1347
1896 1537

Vibration Frequencies use Natural Frequencies

Vibration Isolation see also Vibration Control, Isolation

260 1142 744 95 1946 1027 268 1309
1540 265 948 1859
1338

Vibration Isolators see also Mounting Systems

991 1142 1513 1376 257 1099
637

Vibration Measurement

483 1964 535 1066 1067 1269
1863 965 1427

Vibration Mode use Normal Mode

Vibration Monitors

1872 287 1479

Vibration Reduction use Vibration Control

Vibration Resonance see also Coincidence Phenomena

1391 393 1374 535 1478 159
1698

Vibration Response

40 111 222 3 94 385 296 307 168 49
60 441 402 393 284 435 366 317 238 219
160 461 422 423 414 525 396 377 388 449
310 491 452 463 454 565 416 387 398 489
390 841 472 513 564 635 426 467 638 719
440 1001 552 653 804 715 1006 557 808 729
600 1061 652 783 1074 785 1096 657 858 759
680 1091 762 843 1214 835 1276 667 928 789
750 1191 782 943 1364 915 1496 717 1068 829
790 1281 832 973 1374 1035 1586 1057 1148 879
940 1511 972 993 1494 1155 1746 1447 1188 979
1000 1561 982 1103 1574 1175 1926 1657 1268 1059
1090 1641 1012 1173 1664 1215 1727 1278 1179
1100 1851 1092 1333 1704 1345 1857 1298 1189
1130 1262 1363 1754 1505 1388 1289
1190 1342 1393 1874 1705 1408 1339
1280 1352 1513 1904 1845 1468 1429
1390 1522 1913 1488 1469
1410 1582 1498 1499
1540 1662 1518 1519
1570 1692 1548 1939
1690 1702 1698
1700 1762 1708
1770 1892 1888
1920

Vibration Response Spectra

1820 171 1404 1005 177

Vibration Tests see also Resonance Tests

1560 101 252 143 1534 146 457 18 779
1830 831 722 1473 1674 807 238
802 1247 418
1892 1148
1678

Vibration Tolerance

93 1934 97
263

Vibration Transmission

1371

Vibrators (Machinery)

140 381 1012 934 606 17 288
650 451 1072 1074 986 1767 1268

Vibratory Compacting

371 288

Vibratory Conveyors use Vibrators (Machinery), Materials Handling Equipment

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Vibratory Techniques see also

Ultrasonic Techniques

371 404 1476 188 919
541 934 1896

Vibratory Tools

1476 1539

Violins see also Musical Instruments

626 289
729

Viscoelastic Damping

1250 462 1836 768

Viscoelastic Foundations

462 281519

Viscoelastic Media

360 1573 24 185 178 369
674 375
1904

Viscoelastic Properties

360 1661 1662 1663 635 1166 767 408 1009
530 1835 1836 937 918 1659
1660 1387

Viscoelastoplastic Properties

291 28 39

Viscoplastic Media

348

Viscoplastic Properties

42 1879

Viscosity

1051 576 929

Viscous Damping

1040 1631 183 1454 1755 757
1250 333
1630

Viscosity

1849

Viscous Medium

651 444 846 469
911 984 1769

Vortex Excited Vibrations

535

Vortex Noise

1960 1712

Vortex Shedding

601691 262 904 535 1147 1728 539
1620

VTOL Aircraft use Vertical Takeoff Aircraft

W

Walls

210 491 562 1233 234 1446 168 759
350 1132 1483 834 278 1289
924
1234

Water Skis use Skis

Water Waves

370 441 192 763 314 525 1306 757 428 1159
672 973 504 765 1846 877 908 1469
1422 1853 534 775 1227 1058
1845 1467

Wave Attenuation

370

Wave Diffraction see also Acoustic Scattering

311 732 1623 334 565 1456 427 368
364 705 1846 1218
644 1845

Wave Equation

1782 1804 1635 436 1849
1735

Waveforms

1610 1851 888

Waveguides

1861 1192 1833 1286
1222 1816

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Wave Propagation see also Group Velocity

370 341 182 333 324 405 356 337 208 329
 430 501 562 353 354 415 506 347 298 389
 510 671 742 363 514 525 596 417 348 509
 690 741 1212 393 854 725 926 527 428 529
 890 1491 1252 703 954 995 956 767 568 639
 940 1691 1442 1243 1254 1065 1226 917 758 1219
 1030 1811 1492 1253 1614 1165 1256 1457 918 1289
 1190 1831 1622 1313 1634 1255 1286 1467 1318 1379
 1200 1642 1673 1784 1455 1446 1547 1328 1609
 1220 1782 1833 1495 1576 1617 1458 1629
 1230 1802 1853 1565 1626 1637 1608 1899
 1240 1832 1933 1635 1636 1747 1638
 1440 1715 1816 1817
 1610 1785
 1620 1805
 1875

Wave Reflection

350 334 1735 1467 509
 1459

Waves use a more specific term: Acoustic

Waves, Axisymmetric Waves, Circumferen-
 tial Waves, Dilational Waves, Distortional
 Waves, Elastic Waves, Extensional Waves,
 Flexural Waves, Harmonic Waves, Internal
 Waves, Longitudinal Waves, Mechanical
 Waves, Oscillation Waves, Rayleigh Waves,
 Shear Waves, Sound Waves, Standing Waves,
 Spherical Waves, Surface Waves, Thermo-
 acoustic waves

Wave Scattering use Wave Diffraction

Weapon Effects see also Gunfire Effects,
 Mechanical Explosions
 1822

Wear

1242 1466 1727 1549

Wedges

1612 1225 306 1847
 566

Wheel Shimmy

274

Wheels (Steering) use Steering Wheels

Whirling

1080 512 803 1886

Wind-Induced Excitation

810 781 952 153 654 555 457 829
 1220 1221 1032 693 834 1737 1299
 1671 1762 1443
 1763
 1853
 1923

Windows

43 44

Wind Tunnel Tests

920 1721 1223 83 174 535 726 657 248
 1751 1482 193 654 1855 1326 907 828
 1752 1053 1924 1336 1867
 1273 1666
 1756

Wings use Aircraft Wings

Wires

384

Wood

1287 409
 1279

Work Hardening use Strain Hardening

Y

Young's Modulus

24 1418
 364

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